

# Linear Measurements, Inc.

AcustiSonde™ Series 3000

Downhole Acoustic Probe



## The Probe

Designed to provide a well engineer valuable information on downhole noise, the AcustiSonde™ Probe aids the process of evaluating and improving well performance. The acoustic monitoring probe provides real time data for interpreting the acoustic signatures of gases, fluids or sand flowing through downhole cracks, or channels or other openings.

## Features

The AcustiSonde™ is manufactured to give you the best in versatility, convenience and durability. Calibration is unnecessary due to the probe's sealed design. The probe has a flat frequency response typically within 3 dB from 100Hz to 10KHz. The unique design and high standards have virtually eliminated frequency related measurement errors common to other systems. Operators can also choose to monitor the unfiltered output from the probe. The probe comes with a selectable gain, 100 or 1000 adjustable by current settings. The probe offers a variety of other options such as; Feed-through, High Temperature 400°F, or a High Pressure Housing for use up to 20,000 PSI and both positive and negative polarities.

The AcocustiSonde™ Series 3000 is compatible with most commercially available integrated production logging data acquisition systems.

Its casing is manufactured using 316 Stainless Steel specifically for corrosion resistance and ability to withstand up to 15,000 PSI (*20,000 PSI by special order*). The AcustiSonde™ is designed to be quickly disassembled, cleaned and reassembled, for the next use. Linear Measurements products are thoroughly tested before delivery and are designed to provide trouble free use. Each tool includes an operating and service manual, including electrical and mechanical drawings.





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### Operating

#### Transducer

**Midband Sensitivity:** -196 dB re 1v/μ Pa

**Frequency Response:** 100 Hz – 10 KHz

#### Amplifier

**Gain:** 100 or 1,000

**Maximum Output:** 5V peak

#### Logging Cable Supply:

Negative polarity( std), Approximately 35V min., adjusted to 50mA (also available in Positive polarity)

### Mechanical

**Diameter:** 1-3/8" (Std or 1")

**Length:** 30" (Std)

**Shipping Weight:** 13 pounds (Std)

**Material:** 316 Stainless Steel

**Transducer Assembly:** 316 Stainless Steel

**Connection:** GO rope socket  
(Others available on special order)

**Feed-through:** available as option

### Environmental

#### Temperature

**Operating:** 0 to +175°C  
(-40 to 350°F) & 0 to 200°C

**Storage:** -40 to 175°C (-40 to 350°F)

**Pressure:** 15,000 PSI maximum  
(20,000 PSI by special order)